

ABSTRACT

A new biofilm-activated sludge Sequencing Batch Reactor (SBR) treatment process for sewage or wastewater has successfully been developed as the third generation SBR (SBR3). This new SBR3 process utilizes a multi-stage and multi-sludge SBR configuration receiving either continuous or intermittent inflow of wastewater. Each stage has individually controlled continuous or alternating anaerobic/anoxic/aerobic operation, with or without mixing and recycling from the other stage(s). The configuration and operation is dependent upon the treatment objectives and effluent discharge requirements. In the preferred embodiment, carriers are used to facilitate control of operating conditions.

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